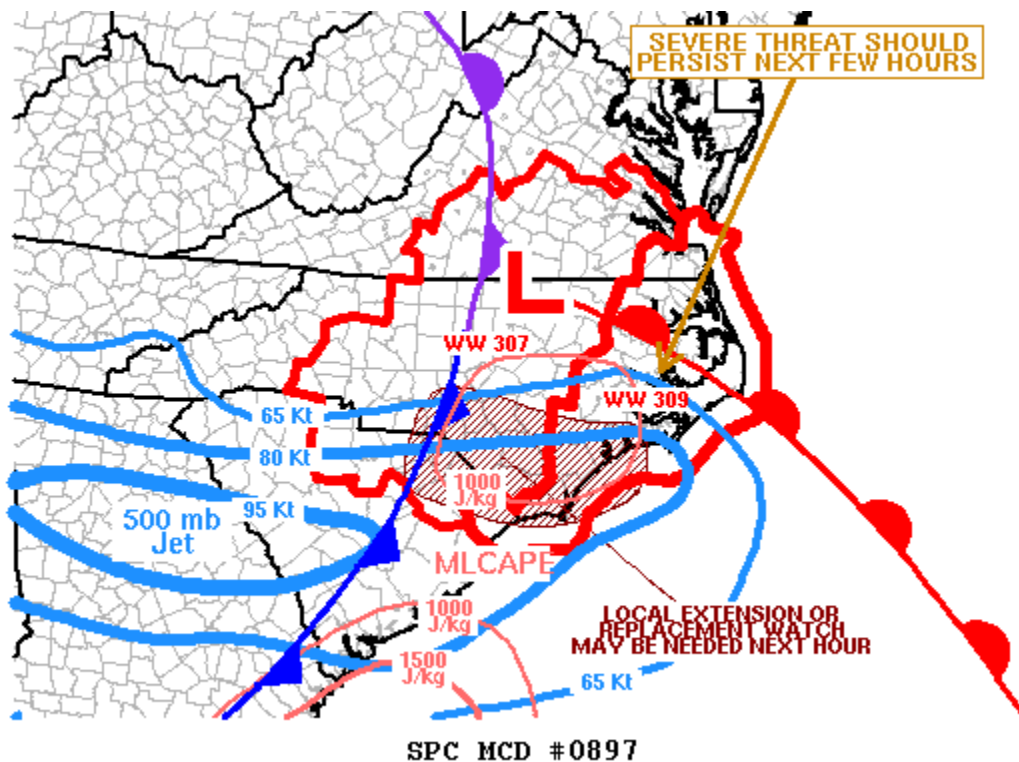


May 11th, 2008 Mother's Day Severe Weather Outbreak

Overview/Warnings

A Tornado Watch was issued at 445 pm for all eastern North Carolina effective until 11 pm. In total, 8 Tornado Warnings and 11 Severe Thunderstorm Warnings were issued by the Newport/Morehead City office. The first warning was issued at 537 pm with the last issuance at 906 pm.

The following Mesoscale Convective Discussion was issued by the Storm Prediction Center in Norman OK at 530 pm local time which highlighted the threat for supercell development over eastern North Carolina in the next few hours.



MESOSCALE DISCUSSION 0897
NWS STORM PREDICTION CENTER NORMAN OK
0630 PM CDT SUN MAY 11 2008

AREAS AFFECTED...ERN NC...NE SC

CONCERNING...TORNADO WATCH 307...

VALID 112330Z - 120100Z

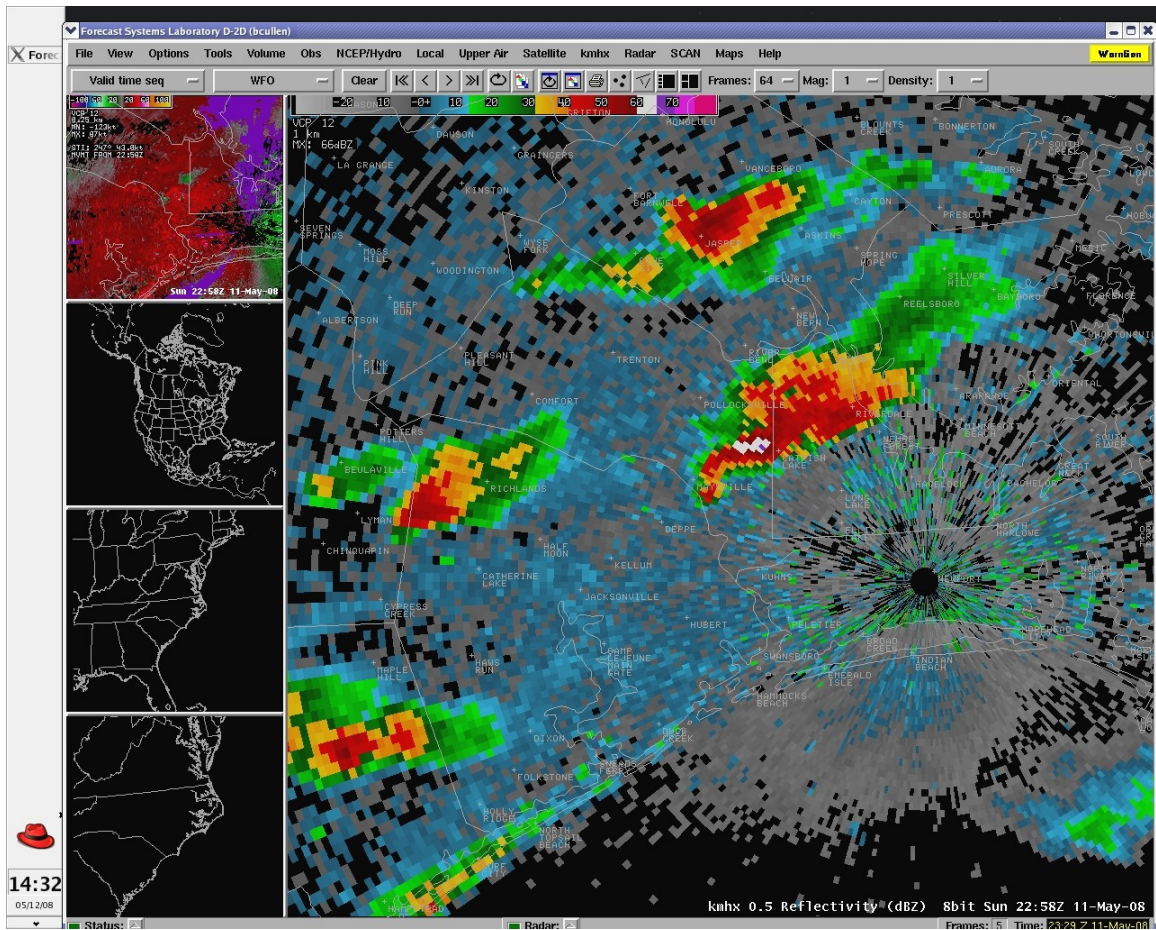
THE SEVERE WEATHER THREAT FOR TORNADO WATCH 307 CONTINUES.

THE SEVERE THREAT WILL SPREAD EWD ACROSS THE PAMLICO SOUND AREA OF ERN NC AND WILL PERSIST ACROSS SRN NC FOR SEVERAL MORE HOURS. A TORNADO OR TWO REMAIN POSSIBLE HOWEVER...LARGE HAIL AND WIND DAMAGE SHOULD BE THE PRIMARY THREATS WITH THE STRONGER CELLS. A REPLACEMENT WW MAY BECOME NECESSARY OVER THE NEXT HOUR ACROSS SRN NC.

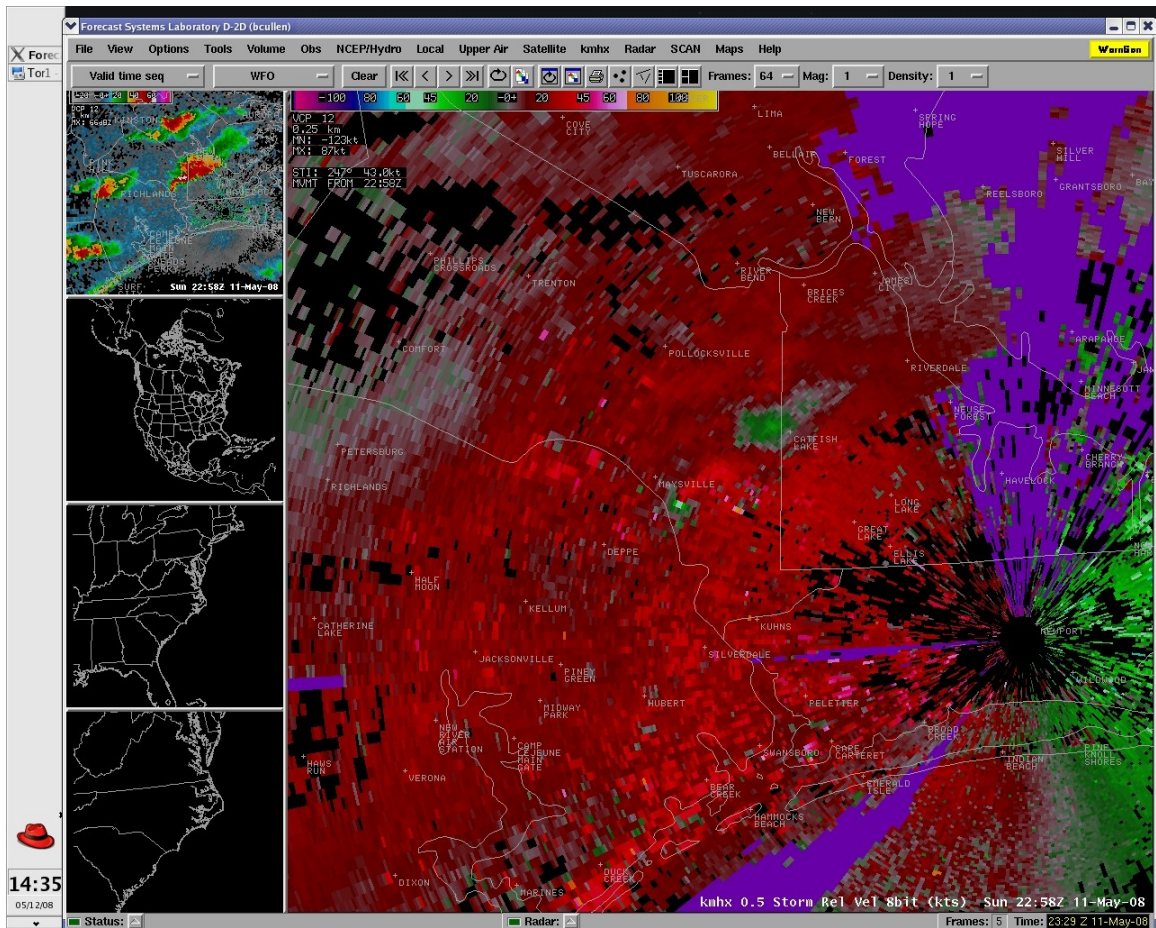
LATEST SFC ANALYSIS SHOWS A 994 MB LOW OVER NE NC WITH A OUTFLOW BOUNDARY EXTENDING WSWWD INTO CNTRL NC. A COLD FRONT IS PRESENT FROM NEAR RALEIGH NC SWD INTO CNTRL SC. RUC DATA SUGGESTS MODERATE INSTABILITY REMAINS EAST OF THE BOUNDARY WHICH COMBINED WITH STRONG VERTICAL SHEAR ASSOCIATED WITH THE LEFT EXIT REGION OF A 85 TO 95 KT MID-LEVEL JET WILL BE SUFFICIENT FOR SEVERE STORMS AND ISOLATED SUPERCELLS. ALTHOUGH A FEW TORNADOES REMAIN POSSIBLE ACROSS ERN AND SRN NC...WSR-88D VWPS SHOW VEERING LOW-LEVEL WIND PROFILES SUGGESTING THE TORNADO THREAT MAY BE DECREASING. EVEN SO...THE THREAT FOR LARGE HAIL AND WIND DAMAGE WILL LIKELY CONTINUE AS SEVERE STORMS MOVE INTO THE COASTAL AREAS OVER THE NEXT 1 TO 3 HOURS.

Radar Displays

Here is are Base Reflectivity (REF) and Storm Relative Motion (SRM) images from the Newport/Morehead City WSR-88D radar during the time that the tornado was on the ground near Maysville.



The hook echo appendage is clearly visible on the 0.5 deg Base Reflectivity product. The radar beam height is approximately 1200 feet.



The 0.5 deg Storm Relative Motion (SRM) also clearly shows a strong rotational couplet on the 0.5 radar slice that coincides with the base reflectivity. The VR/Shear tool indicates 50kts of rotational velocity which is in the very strong category for mesocyclones.

Storm Damage and Hail Reports

Reports of severe weather began to filter into the office around 7 pm with public and county official reports of a possible tornado touchdown in the Belgrade/Maysville area. A preliminary rating of EF2 has been assigned to the tornado damage in Belgrade.

In the next few hours, numerous reports were received of hail as large as one inch and wind gusts as high as 60 to 65 mph. Structural and tree damage due to a possible tornado was reported in the Morehead city area shortly after 8 pm. This storm is preliminarily been assigned an EF1 rating on the enhanced tornado intensity scale.

EF SCALE	
EF Rating	3 Second Gust (mph)
0	65-85
1	86-110
2	111-135
3	136-165
4	166-200
5	Over 200

This is a summary of storm reports received by the Newport/Morehead City NC office.

NWUS52 KMHX 120216
LSRMHX

PRELIMINARY LOCAL STORM REPORT...SUMMARY
NATIONAL WEATHER SERVICE NEWPORT/MOREHEAD CITY NC
1016 PM EDT SUN MAY 11 2008

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0645 PM	TORNADO	BELGRADE	34.87N 77.24W
05/11/2008		ONSLOW	NC EMERGENCY MNGR

*** 6 INJ *** TIME APPROXIMATE. DAMAGE TO 25 BUILDINGS IN THE BELGRADE AREA.

0645 PM	TORNADO	BELGRADE	34.87N 77.24W
05/11/2008		ONSLOW	NC COUNTY OFFICIAL

911 CENTER RECEIVED SEVERAL REPORTS OF TORNADO TOUCHDOWN IN THE BELGRADE AREA.

0657 PM	TORNADO	SE MAYSVILLE	34.90N 77.23W
05/11/2008		JONES	NC PUBLIC

0705 PM	HAIL	VANCEBORO	35.30N 77.16W
05/11/2008	E0.88 INCH	CRAVEN	NC PUBLIC

0730 PM	HAIL	HAWS RUN	34.68N 77.57W
05/11/2008	E0.75 INCH	ONSLOW	NC PUBLIC

0736 PM	HAIL	JACKSONVILLE	34.76N 77.40W
05/11/2008	E0.88 INCH	ONSLOW	NC PUBLIC

0738 PM	HAIL	7 S MAYSVILLE	34.80N 77.23W
05/11/2008	E0.75 INCH	ONSLOW	NC PUBLIC

0740 PM	HAIL	JACKSONVILLE	34.76N 77.40W
05/11/2008	E0.88 INCH	ONSLOW	NC PUBLIC

0743 PM	HAIL	JACKSONVILLE	34.76N 77.40W
05/11/2008	E0.75 INCH	ONSLOW	NC PUBLIC

0750 PM	HAIL	HAVELOCK	34.91N 76.89W
05/11/2008	E1.00 INCH	CRAVEN	NC PUBLIC

0755 PM	HAIL	NEW BERN	35.12N 77.08W
05/11/2008	E1.00 INCH	CRAVEN	NC PUBLIC

0755 PM	HAIL	HAVELOCK	34.89N 76.93W
05/11/2008	E0.75 INCH	CRAVEN	NC NWS EMPLOYEE

0759 PM	HAIL	HAVELOCK	34.89N 76.93W
05/11/2008	E0.75 INCH	CRAVEN	NC PUBLIC

0808 PM	TORNADO	1 N MOREHEAD CITY	34.74N 76.73W
05/11/2008		CARTERET	NC PUBLIC

BRIEF TOUCHDOWN WITH TREES DOWN AND TRAMPOLINE FLIPPED NEAR BRANDYWINE SUBDIVISION.

0810 PM	TORNADO	MOREHEAD CITY	34.72N 76.73W
05/11/2008		CARTERET	NC PUBLIC

REPORT OF TRAILER OVERTURNED IN THE MOREHEAD CITY WAL-MART PARKING LOT.

0817 PM	FUNNEL CLOUD	2 E BEAUFORT	34.72N 76.62W
05/11/2008		AMZ158	NC PUBLIC

FUNNEL CLOUD SPOTTER EAST OF BEAUFORT.

0817 PM	FUNNEL CLOUD	2 N MOREHEAD CITY	34.75N 76.73W
05/11/2008		CARTERET NC	PUBLIC

POSSIBLE FUNNEL CLOUD TOUCHDOWN JUST NORTH OF MOREHEAD CITY.

0817 PM	HAIL	JACKSONVILLE	34.76N 77.40W
05/11/2008	E0.88 INCH	ONSLOW NC	PUBLIC

NICKEL SIZED HAIL REPORTED NEAR NEW RIVER AIR STATION.

0820 PM	HAIL	CAMP LEJEUNE	34.70N 77.37W
05/11/2008	E0.75 INCH	ONSLOW NC	PUBLIC

0827 PM	TSTM WND GST	BEAUFORT	34.72N 76.65W
05/11/2008	M60.00 MPH	CARTERET NC	PUBLIC

BEAUFORT TOWN DOCK

0828 PM	HAIL	CAMP LEJEUNE	34.70N 77.37W
05/11/2008	E0.88 INCH	ONSLOW NC	PUBLIC

0835 PM	TSTM WND GST	BEAUFORT	34.72N 76.65W
05/11/2008	M54.00 MPH	CARTERET NC	PUBLIC

0837 PM	HAIL	ATLANTIC	34.89N 76.35W
05/11/2008	E0.88 INCH	CARTERET NC	AMATEUR RADIO

0933 PM	TSTM WND DMG	RODANTHE	35.61N 75.46W
05/11/2008		DARE NC	TRAINED SPOTTER

WIND GUST TO 65 MPH RECORDED.

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This is a graphical display of from the Storm Prediction Center of national severe weather reports.

SPC Storm Reports for 05/11/08

Map updated at 1505Z on 05/12/08

